

**STATEMENT OF QUALIFICATIONS**  
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**Name of Lab:** Alaska Scientific Crime Detection Laboratory

**Date:** December 1, 2008

**Name:** Lawrence Turner Pippin

**Job Title:** Forensic Scientist III - Physical

**Disciplines:** Indicate all areas in which you do casework.

Fingerprints  
Crime Scene Diagramming  
Photography  
Snow and Dirt Casting  
Electrical Analysis and Schematic Preparation of Explosive Devices  
Blood and Trace Collection  
General Crime Scene Investigations

**Education:** List all higher academic institutions attended.

Institution	Dates attended	Major	Degree completed
Finley Engineering College	1961-1964	Electrical Engineering	B.S.

**Other Training:** List continuing education, workshops, in-service and other formal training received.

Forensic Training:

11-14-08 – Business Grammar & Proofreading – 1 day  
07-29/30-08 – Expert Witness Testimony Techniques – by Ron Smith  
01-18-08 – Advanced Blood Spatter – 1 week – by Tom Bevel  
04-19-07 – Death Investigation – 8 hours  
08-04-06 – Crime Scene Photography – 8 hours  
04/12/06 – Laboratory Digital Photography – 8 hours  
10/01/05 - Collecting Vehicle Paint Transfer & Known Samples – 4 hours  
12/16/03 - Tire Documentation – 2 hours  
11/12/03 - Alternate Light Source Operation – 4 hours  
07/13/03 - Accupoint Operation  
05/13/03 - Crime Scene Van Operation – 1 hour, class taught by me  
19 Sept 2000 – Electrical Safety Course – 14 hours – Technology Transfer, Inc.  
1999 - Blood Evidence Collection – 4 hours  
1999 - Aviation Land and Water Survival – 2 days  
04/08/03 - Blood Pattern Documentation - 6 hours  
10/28/97 - Using the Flash Meter - 2 hours  
02/11/97 - Trace Evidence Collection – 2 hours  
12/10/96 - Serology Evidence: Documentation & Collection  
11/25/96 - Presumptive Blood Tests  
11/12/96 - Latent Prints  
11/04/96 – Blood Spatter Interpretation  
10/28/96 - Advanced Electrostatic Lifter  
10/01/96 - Electrostatic Dust Print Lifter  
09/10/96 - Crime Scene Diagramming  
06/10/96 - Blood Spatter  
06/03/96 - Video Camera Imaging (Instructor)  
05/20/96 - Crime Scene Documentation with Computer Aided Design Program

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**Other Training:** (continued) List continuing education, workshops, in-service and other formal training received.

Forensic Training:

04/23/96 - Superglue Wand (Instructor)  
04/15/96 - Safe Cracker Powder & Use of Fire and Soot on Galvanized Metal  
04/08/96 - Latent Development Techniques  
01/09/96 - Evidence Evaluation/Documentation, Collection/Packaging  
12/14/95 - Photography  
10/24/95 - Preliminary Processing  
15 October 1993 – Senior Crime Scene Analyst – International Association of Identification  
11 June 1993 – Basic Evidence Response Team Training Course – 1 week – FBI  
28 May 1993 – Forensic Aspects of Latent Prints – 1 week – FBI  
1971 – Basic Police Course – 8 weeks  
1970 – Criminal Identification and Investigation Course – The Institute of Applied Science

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***Other Training:*** (continued)

- 2001: DataMaster Breath Testing Operator, Supervisor and Maintenance Course, National Patent Analytical Systems, Inc.
- 2000: Access 2000, Advanced, CompUSA Computer Training, Anchorage, Alaska (6 hours)
- Using Microsoft Office, CompuMaster, Anchorage, Alaska (8 hours)
- Access 2000, Intermediate, CompUSA Computer Training, Anchorage, Alaska (8 hours)
- Electrical Safety, Requirements and Procedures School, Seattle, Washington (2 days)
- 1999: Datamaster Breath Alcohol School, National Patent Analytical Systems, Mansfield, Ohio (32 hours)
- 1999: EPROM Fix for the Intoximeter 3000 Y-2K Date Sequence
- 1997: Shotgun Buckshot Course, Anchorage Police Department, Anchorage, Alaska (8 hours)
- 1995: Electronic Warfare and Recovery and Destruction of Computer Data, Northwest Association of Forensic Scientists, Anchorage, Alaska (3 hours)
- 1994: Advanced Palm Print Identification, Ron Smith (Instructor), Albany, New York (3 days)
- 1993: Blood Borne Pathogens Training, Scientific Crime Detection Laboratory, Anchorage, Alaska (2 hours)
- Electronic Investigative Techniques, Alaska Peace Officers Association, Anchorage, Alaska (16 hours)
- Laser Fingerprint Development Workshop, Dr. E.R. Menzel, Texas Tech University, Lubbock, Texas (1 week)
- 1992: Advanced Administrative Latent Fingerprint School, FBI Training Academy, Quantico, Virginia (3 weeks)
- Anchorage Police Department
- 1989: Breath Test Supervisor Certification (12/01/89 - 12/01/92), Scientific Crime Detection Laboratory, Sitka (1 week) - Instructor & Student
- 1987: Breath Test Supervisor Certification (11/20/87 - 11/20/90), Scientific Crime Detection Laboratory, Anchorage (1 week) - Instructor & Student
- 1987: Factory Training on Intoximeter 3000, Cal-Detect, Richmond, California (1 week) Advanced Maintenance & Instructor's Course.
- 1985: Data Communications with the Intoximeter 3000, Alaska Department of Health & Social Services, Juneau (8 hours)
- 1984: Breath Test Supervisor Certification (12/26/84 - 12/26/87), Department of Health & Social Services, Anchorage (16 hours) - Instructor & Student
- Portable Breath Testing with the Alco Sensor III (6 hours)
- 1983: DWI Detection, Public Safety Training Academy, Sitka (1 week)
- Factory Training on Intoximeter 3000, Cal-Detect, Richmond, California (43 hours)
- Breath Test Supervisor Certification for Intoximeter 3000 (01/07/83 - 01/07/85), Alaska Pacific University, Anchorage (1 week)

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**Other Training:** (continued)

- 1982: Uniformed Investigators School (1 week)
- 1980: Non-Verbal Communication & Interrogation Techniques (2 days)
- 1979: Revised Criminal Code Class, Alaska Department of Law Criminal Division (3 days)  
Death Investigation Seminar (5 1/2 days)
- 1978: Uniformed Officer Investigation School Search & Seizure, Seward Police Department (8 hours)  
Symposium on Forensic Pathology, State of Alaska Court System (3 days)  
Police Photography, Kodak Company, San Francisco, California (1 week)  
Explosive Tagents, Ft Richardson, Alaska (2 days)  
Certified Police Instructor Course – State of Alaska
- 1977: Instructor Training, Louisville Southern Police Institute, Public Safety Training Academy, Sitka, Alaska (2 weeks)
- 1976: Shotgun Training Course, FBI/Anchorage (9 hours)  
Crime Scene Processing Seminar, Chicago Police Department (1 week)  
Forensic Pathology (6 hours)
- 1975: Techniques and Responsibilities at Reported Gas Smells (8 hours)  
Rape Sensitivity Seminar (8 hours)  
Search & Seizure Seminar, FBI/Anchorage (2 days)
- 1971-1975: Police Administration, University of Alaska-Anchorage (25 credits)
- 1 March 1971 – First Class Radiotelephone Certificate – Passed Test – Federal Communications Commission
- 1971: Locksmithing, The Locksmith Institute (correspondence course)
- 1971: Basic Police Training (8 weeks) The Anchorage Police Department
- 1963 S.C.U.B.A. Diving Certificate – 1 week – Inland School of Diving
- 1962: Passed the State of Missouri Engineer In Training Test after Graduating from College with B.S.E.E.
- 1962: Passed the Kansas City, Missouri Test for Electronic Radio and Television Repair Technician Certification
- 1957 thru 1970 85 Skydiving Parachute Jumps – Parachute Club of America and the U.S. Parachute Association

National Aeronautics & Space Administration (NASA)

- 1970: DHE Controller Technician
- 1969: Electronic Technician Classes on Systems – General Dynamics – Electronics Division
- 1968: VHF, S band Antenna Maintenance & Operations  
VHF, S band Transmitter Operation & Maintenance
- 1966 - 1967: Senior Maintenance of Satellite Tracking and Telemetry Receivers

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**Courtroom Experience:** List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Electronics (47 years), In excess of 100 times  
Photography (37 years), In excess of 100 times  
Latent Fingerprints (37 years), In excess of 100 times

**Professional Affiliations:** List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

None at this time

**Employment History:** List all scientific or technical positions held, particularly those related to forensic sciences. List current position first. Give a brief summary of principal duties and tenure in each position.

- (1) Job Title: Forensic Scientist III - Physical  
Employer: Alaska Department of Public Safety Scientific Crime Detection Laboratory  
Anchorage, Alaska  
Principal Duties: Latent fingerprints, crime scene investigations, electronic repair and photography. Provide instruction in these areas. Provide court testimony on results of analyses.  
Tenure: 04/91 - present
- (2) Job Title: Senior Patrolman  
Employer: Anchorage Police Department  
Anchorage, Alaska  
Principal Duties: Patrol, electronic repair and installation, photography, crime scene searches, court expert witness, and instructor in all above topics.  
Tenure: 1971 - 1991
- (3) Job Title: Electronic Technician  
Employer: Radio Corporation of America, NASA Satellite Tracking & Data Acquisition Station  
Gilmore Creek, Fox, Alaska  
Principal Duties: Installation, maintenance, and operation of all electronic equipment at the station.  
Tenure: 1964 - 1971
- (4) Job Title: Installer  
Employer: The Overhead Door Company  
Fairbanks, Alaska  
Principal Duties: Door installation and radio control repair.  
Tenure: 1957 - 1961

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**INSTRUCTOR CERTIFICATION:**

Alaska Police Standards Council Certified Police Instructor:

- Police photography
- Crime scene processing
- Evidence collection, preservation, and transmittal
- Fingerprinting
- Casting of mud and snow tracks and tool marks
- Intoximeter 3000 Breath Testing Instrument – Instruction, operation and repair
- DataMaster Breath Testing Instrument – Instruction, calibration and repair

Alaska Police Standards Council Police Officer Ratings:

- 1976 - Basic
- 1978 - Intermediate and Advanced

**INTERNATIONAL ASSOCIATION FOR IDENTIFICATION CERTIFICATION:**

- 1993 - Senior Crime Scene Analyst
- 1996 - Renewed certification, Senior Crime Scene Analyst
- Present - Expired

**INVENTIONS and PROJECTS PRODUCED for Crime Detection and Police Work:**

U.S. Patent Number 5289218, Rotorgraph - Capable of photographing a full 360 degrees around cylindrical surfaces.

- Stereo Microscope Light Source (Flashlights that plug into the wall outlet).
- Shoe Photography / Inspection Adjustable Stand with Following Ruler.
- Flash bulb Burglar Alarm System – no patent.
- Brought and taught Sulfur Casting of snow tracks to Alaska Law Enforcement in about 1974.
- Invented an Iodine Fuming Gun for fingerprinting Dead Bodies in about 1974 – no patent.
- Ceiling speaker anti feedback device – no patent.
- Alco Revolver – a device to rotate ALCO Bottles for final mixing of contents – no patent.
- Rubber Glove processing stand and inflator – for fingerprinting and photographing rubber gloves – no patent.
- Motorized Squirrel Cage Super Glue Plastic Baggie Tumbler – for fingerprinting a large quantity of small baggies at once – no patent.
- Infrared Source Class Demonstrator Device for DataMaster Breath Testing – no patent.
- Chopper Wheel/Filter Demonstration Device for DataMaster Breath Testing – no patent.
- Operator's Manual for the Intoximeter 3000 and the DataMaster breath testing instruments.
- Supervisor's Manual for the Intoximeter 3000 and the DataMaster breath testing instruments.
- Maintenance Manual for the Intoximeter 3000 and the DataMaster breath testing instruments.
- Special Bench Clamp for repairing Intoximeter and DataMaster Pressure Gages.
- Modification to High Vacuum Fingerprinting Chamber to add water vapor after removing air from chamber.
- Modification to Tri Super Glue Chamber to allow for individual control of light and heat to each chamber.
- Modification to Crime Van to provide telephonic and intercom connections from Crime Van to Scene.
- Designed numerous Class Handouts for Crime Scene Processing work.
- Produced portable 3 foot long frosted glass Chart Review Cart for Laboratory.
- Produced portable Intoximeter/DataMaster Alcohol Calibration/Certification Cart for alcohol simulators.
- Produced NALCO Bottle Safety Stand for repair, calibration and certification of Intoximeter/DataMaster Instruments.
- Produced a One to One camera adaptor for an older camera for fingerprint work.
- Invented a strobe synchronizer to allow the use of a strobe on an older flash bulb camera – no patent.
- Produced modified EPROM for the Intoximeter 3000 to continue operation past the year 2000.

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***Other Qualifications:*** List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist.

SCIENTIFIC PRESENTATIONS:

The Rotorgraph, A New Instrument to Facilitate Photographing Latent Prints on Small Cylindrical Objects,  
T. Pippin, International Symposium on Forensic Aspects of Latent Prints, FBI Training Academy, Quantico,  
Virginia, 1993.

SCIENTIFIC PUBLICATIONS:

The Rotorgraph, Forensic Science 13<sup>th</sup> Australian and New Zealand International Symposium, Sydney, Australia,  
September 1996, Article C3-51, Pp 15.51.

The Rotorgraph, 14<sup>th</sup> Meeting of the International Association for forensic Sciences, Tokyo, Japan, August 1996,  
Article OS42-1.

The Rotorgraph, International Association for Identification's Journal of Forensic Identification, Vol. 45, No. 6,  
Nov/Dec 1995, Pp 612-617.

The Rotorgraph, Collected papers from the International Forensic Science Symposium,  
November 27 to December 3, 1994.